TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	07-07-2020	04-08-2020	28 days	8.142	22500	582	25.87	25.94
2	07-07-2020	04-08-2020	28 days	8.146	22500	583	25.91	
3	07-07-2020	04-08-2020	28 days	8.150	22500	586	26.04	

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TEJUS CONSULTANTS

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-07-2020	15-07-2020	7 days	8.124	22500	376	16.71	16.68
2	08-07-2020	15-07-2020	7 days	8.146	22500	378	16.80	
3	08-07-2020	15-07-2020	7 days	8.134	22500	372	16.53	

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Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	08-07-2020	05-08-2020	28days	8.136	22500	585	26.00	26.07
2	08-07-2020	05-08-2020	28days	8.140	22500	588	26.13	
3	08-07-2020	05-08-2020	28days	8.138	22500	587	26.09	

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Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	09-07-2020	16-07-2020	7 days	8.136	22500	375	16.67	16.62
2	09-07-2020	16-07-2020	7 days	8.140	22500	374	16.62	
3	09-07-2020	16-07-2020	7 days	8.142	22500	373	16.58	

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Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	09-07-2020	06-08-2020	28days	8.138	22500	586	26.04	26.09
2	09-07-2020	06-08-2020	28days	8.143	22500	588	26.13	
3	09-07-2020	06-08-2020	28days	8.140	22500	587	26.09	

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Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-07-2020	17-07-2020	7 days	8.143	22500	368	16.36	16.34
2	10-07-2020	17-07-2020	7 days	8.138	22500	365	16.22	
3	10-07-2020	17-07-2020	7 days	8.128	22500	370	16.44	

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Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-07-2020	07-08-2020	28days	8.140	22500	588	26.13	26.06
2	10-07-2020	07-08-2020	28days	8.136	22500	587	26.09	
3	10-07-2020	07-08-2020	28days	8.142	22500	584	25.96	

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub div				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			

SIEVE ANALYSIS					
Type of Material	20 mm down size		Proposed Use	Concrete	
Sample Location	At Plant		Date of Sampling	22-07-2020	
			Date of Testing	23-07-2020	
IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	275	275	2.75	97.25	95 - 100
10.00 mm	4822	5097	50.97	49.03	25 - 55
4.75 mm	4264	9361	93.61	6.39	0 - 10
Pan	639	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Project Division
Yelahanka Zone
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Test Report on Cement

Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	23-07-2020
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	102 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	464Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	22-07-2020
Period of Soaking	24 hours	Date of Testing	23-07-2020

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	668	674	656	
B	Weight of oven - dry sample gm.	659	666	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1695	1698	1687	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.653	2.656	2.655
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.366	1.201	1.235	1.267

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TEST REPORT					
Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.				
Consultants	TEJUS CONSULTANTS				
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	12.5 mm down size		Proposed Use	CONCRETE	
Sample Location	At Plant		Date of Sampling	22-07-2020	
			Date of Testing	23-07-2020	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	536	536	5.36	94.64	90-100
10.0	4532	5068	50.68	49.32	40-85
4.75	4320	9388	93.88	6.12	0-10
Pan	612	10000			

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TEST REPORT	
Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	M sand		**Proposed Use**	concrete
Sample Location	At Plant		**Date of Sampling**	23-07-2020
			Date of Testing	23-07-2020

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	207	207	6.90	93.10	90 - 100
2.36 mm	322	529	17.63	82.37	75 - 100
1.18 mm	418	947	31.57	68.43	55 - 90
0.600 mm	492	1439	47.97	52.03	35 -59
0.300 mm	775	2214	73.80	26.20	8-30
0.150 mm	630	2844	94.80	5.20	0 - 10
Pan	156	3000			-

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CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.:CECTC-MT-IWD-073-2020-21

Date: 24.07.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Bruhat Bangalore Mahanagara Palike.**
Contractor	:	**Sri K. Shankar Reddy,** Contractor, Bangalore.
Name of Consultant	:	**Tejus Consultants**
Name of Work	:	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Sample Identification	:	10mm 12mm, 16mm & 20mm. TMT Fe 500 Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test:	:	24.07.2020

Sl.No	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
			0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	10	0.619	521	562	18
2	12	0.89	536	574	19
3	16	1.599	541	589	20
4	20	2.478	556	596	21

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For Civil Experts

Authorised Signature

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

TEJUS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	27-07-2020	03-08-2020	7 days	8.122	22500	366	16.27	16.36
2	27-07-2020	03-08-2020	7 days	8.136	22500	368	16.36	
3	27-07-2020	03-08-2020	7 days	8.142	22500	370	16.44	

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Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
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2	28-07-2020	04-08-2020	7 days	8.130	22500	370	16.44	
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Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	28-07-2020	25-08-2020	28days	8.143	22500	587	26.09	26.07
2	28-07-2020	25-08-2020	28days	8.152	22500	585	26.00	
3	28-07-2020	25-08-2020	28days	8.148	22500	588	26.13	

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4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	29-07-2020	05-08-2020	7 days	8.133	22500	366	16.27	16.36
2	29-07-2020	05-08-2020	7 days	8.142	22500	368	16.36	
3	29-07-2020	05-08-2020	7 days	8.146	22500	370	16.44	

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TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Construction of Marriage Community Hall in Jakkur in Ward No. 07 Byatarayanapura Kodigehalli Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Marriage Community Hall in Jakkur

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	29-07-2020	26-08-2020	28days	8.146	22500	586	26.04	26.13
2	29-07-2020	26-08-2020	28days	8.135	22500	590	26.22	
3	29-07-2020	26-08-2020	28days	8.150	22500	588	26.13	

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Marriage Community Hall in Jakkur in Ward no.07 Byatarayanapura Kodigehalli Sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri K. Shankar Reddy, # 48/2, Kaverinagar, Kaval Bairasandra, Bangalore - 32.
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			**Proposed Use**	PCC
Sample Location	Marriage Community Hall in Jakkur			**Date of Sampling**	04-08-2020
				Date of Testing	05-08-2020
IS Sieve Size	**Weight Retained in gm**	**Cum. Weight Retained in gm**	**Cumulative Weight Retained in %**	**Cumulative Weight Passing in %**	**Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size**
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	88	88	2.93	97.07	95-100
20.00mm	1404	1492	49.73	50.27	30-70
10.00mm	972	2464	82.13	17.87	10-35
4.75mm	460	2924	97.47	2.53	0-5
Pan	76	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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